

Features

- Semi-shielded construction
- Miniature size
- Low profile: 1 mm
- Inductance range: 0.24 to 2.2 μ H
- Rated current up to 3.1 A
- RoHS compliant* and halogen free**

Applications

- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cellphones
- Televisions, LCD displays

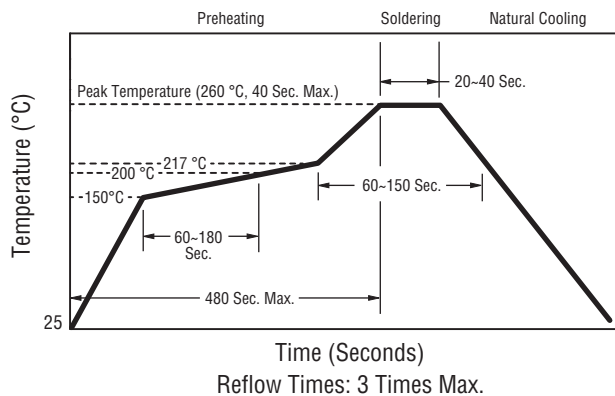
SRN2510 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 1 MHz / 0.1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	I _{rms} (A)	I _{sat} (A)
	L (μ H)	Tol. %						
SRN2510-R24M	0.24	20	8	1	210	0.042	3.1	4.3
SRN2510-R47M	0.47	20	8	1	200	0.042	3.1	3.2
SRN2510-R68M	0.68	20	9	1	160	0.055	2.8	2.9
SRN2510-1R0M	1.0	20	10	1	140	0.08	2.2	2.7
SRN2510-2R2M	2.2	20	11	1	80	0.169	1.5	1.9

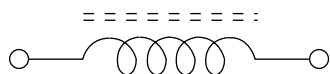
Soldering Profile

Peak Temperature: 260 °C max.
 Max. Peak Temperature 260 °C: 40 sec. max.
 Max. Time Above 217 °C: 60~150 sec. max.



Reflow Times: 3 Times Max.

Electrical Schematic



How to Order

Model SRN2510 - R24M
 Value Code (see table)



Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116
 EMEA: Tel: +36 88 520 390 • Fax: +36 88 520 211
 The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700
www.bourns.com

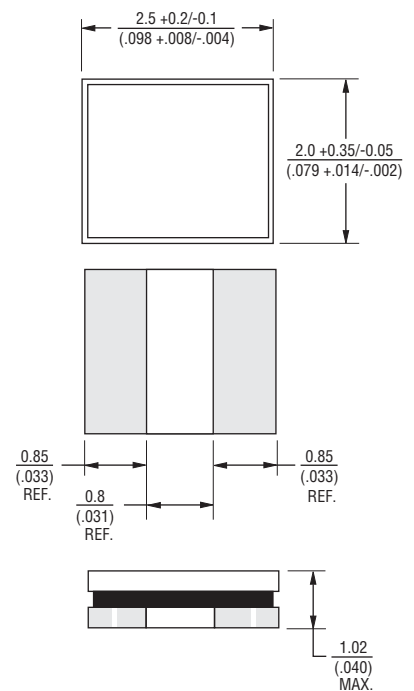
General Specifications

Operating Temperature -55 °C to +125 °C
 (Temperature rise included)
 Storage Temperature -40 °C to +85 °C
 Resistance to Solder Heat +260 °C for 40 sec.
 Temperature Rise 40 °C at rated I_{rms}
 Rated Current Inductance drops 30 % at I_{sat}

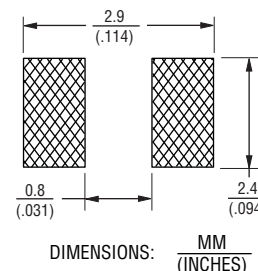
Materials

Core Ferrite
 Wire Enameled copper
 Terminal Finish Sn
 Coating Magnetic epoxy resin
 Packaging 2000 pcs. per 7-inch reel

Product Dimensions



Recommended Layout



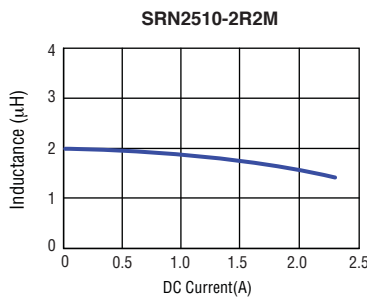
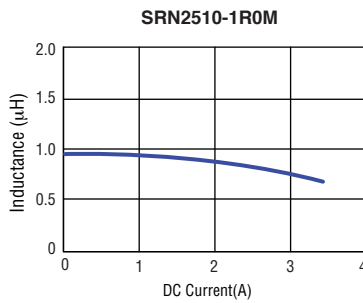
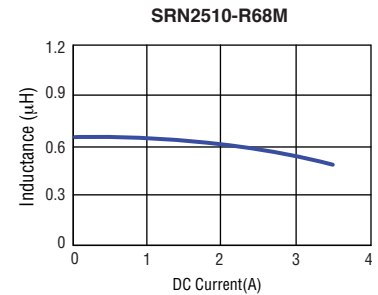
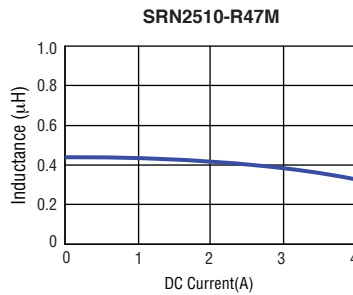
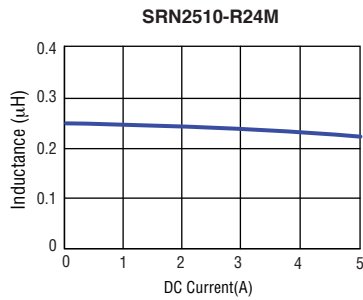
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
 **Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.
 Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

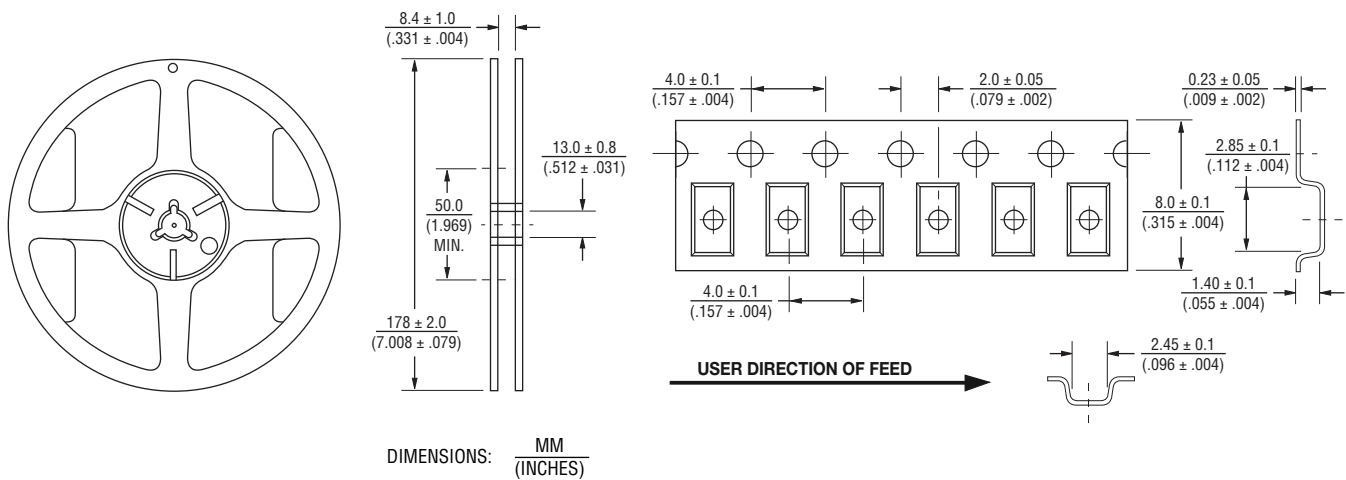
SRN2510 Series - Semi-shielded Power Inductors

BOURNS®

L vs. IDC



Packaging Specifications



QTY: 2000 PCS. PER REEL

REV. 12/14

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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